التاريخ :   الموضوع :

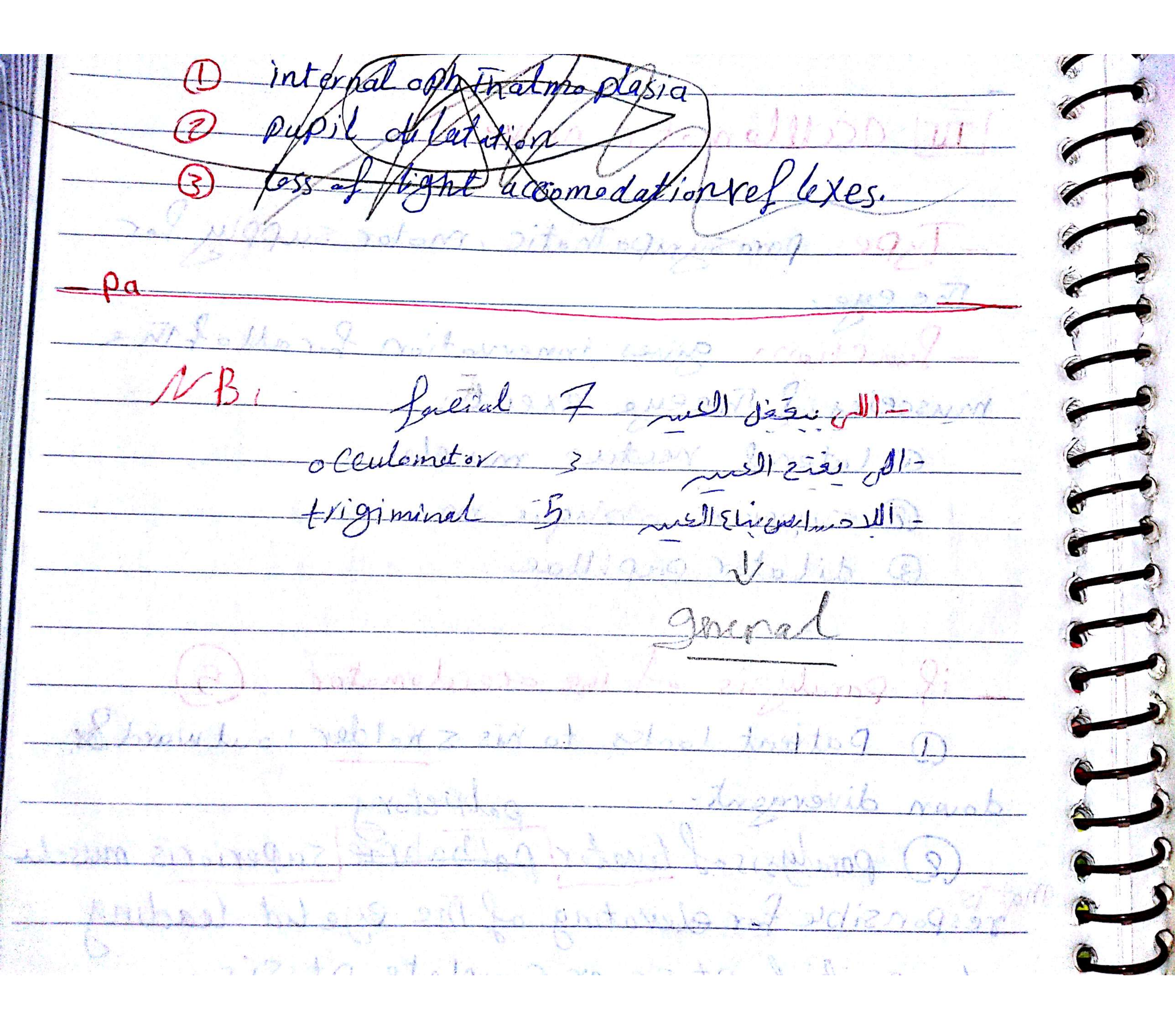
Cranial nerves. + papers.

[III] Occulomator nerve

- Type: parasympathatic, motor supply for The eye.
- function: gives innervation for all of The muscles of The eye exept:
  1. lateral rectus muscle
  2. superior oblique m
  3. dilator papillae

- if paralysis of The occulomotor (5)
  1. Patient looks to his sholder : outward & down divergent.
  2. paralysis of levator ~~palbebrae~~ palpetory superioris muscle That is responsible for elevating of The eyelid leading to partial ptosis or complete ptosis
  3. dilatation of The pupils
  4. internal ophthalmoplagia
  5. loss of light allomadation reflexes.

- Muscles supply
  1. levator palpitory m → by occulomator n
  2. orbicularis occuli m → ~~sympathatic~~ facial nerve supply for opening and closure of The eye
  3. molar eye m → sympathatic supply
  4. Cilliary muscle → Parathympathatic supply.


① internal ophthalmoplasia
② pupil dilatation
③ loss of light accomodation reflexes.
- pa
NB: facial 7 - اللي بيقفل العين
occulomotor 3 - اللي بيفتح العين
trigiminal 5 - الاحساس بتاع العين
general

[V] Trigeminal nerve :-

type - mixed nerve

- ~~function~~ branches: - mandibular branch
  - maxillary branch
  - ophthalmic branch

- function:-

① normal Sensation of the whole ~~phace~~ face exept the tongue ~~and~~ the ear and the angle of the mandible

② motor supply to: (muscles of mastication)
- temporalis m
- ptrygoid mus
- masseter.
- tensor palati
- mylohyoid
- anterior belly of digastric m.

Lesions: 14 — motor 2 - reflexes 3 - sensation 2

[1] motor: - weakness of muscles of mastication at the same side of the lesion.
- deviation of the jaw opposit side of the lesion

[2] Reflex: - increased jaw reflex
- loss of palatal reflex
- loss of corneal, conjunctival reflexes

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[3] Sensation: - loss of the sensation in the centre ~~of the face~~ and in the prepherals of the face
- loss of general sensation of the anterior 2/3s of the tongue

زودي دي من الـ lacrimal

(1) you should determine if the forhead is ~~ex~~ involved in the forehead or not
- this can be done by assissing if the patient can raise the eye brows.
- to determine if the lesion in the upper motor neuron or the lower motor neuron?

VII Facial nerve.

— type — mixed parasympathatic. nerve.

— Function: ~~(1)sen~~

(1) Sensory: taste sensation of the anterior $2/3$ of the tongue by Chorda tympani

(2) Motor: of the whole ~~face~~ muscles. except the tongue.
— exepressions of the ~~phase~~ face.

(3) Autonomic: to 3 glands: lacrimal, sublingual and sub~~maxillary~~ mandibular glands.

— Coarse: passes from the sternomastoid foramin to the parotid gland then to the parts of the face.

— Examination: each muscle alone.

— lesion (1) paralysis of the half of the ~~pha~~ face at the opposite side of the lesion.
2- loss of tast sensation of the $2/3$ of the tongue.
3- inability to close the eye.
4- loss of the normal corrugations of the forehead during looking upwards.
5- oblitration of the naso-labial folds.

التاريخ : ________ الموضوع : ________

IX Glossopharngeal nerve.

type: mixed, paraThympathatic.

functio ① Sensatio of The posterior 1/3 of The tongue and The upper pharynx. and The tonsiles.

② motor: - stylopharyngus m
- superior Constrictor m.

③ Autonomic: Parotid gland.

- lesions: ① loss of pharngeal reflect
② loss of taste and general sensation of posterior 1/3 of The tongue.

[X] Vagus nerve
- type: mixed, parathympathatic
- function
[1] Motor: - soft palat
- pharynx - larynx.

[2] Sensory: - skin over the external audetry meatus -
- mucous membran of GIT
- mucous membrane of the respiratory tract -

[3] Autonomic: - parathympathatic to the heart
- parathympathatic to GIT & RT

- lesions:
[1] pharngyal paralysis: - Dysphagia
- loss of phargeal reflexes
[2] laryngeal paralysis: - hoarsness of voice
- aphonia مفيش كلام
[3] Others: - locked in syndrom
- palatal weakness
- nasal regurigitation of food
- tachycardia
- constipation.

التاريـــخ : ____________ الموضـوع : ____________

- Examination of The Vagus nerve:-

[1] Bilateral reflex:
by touching The soft palate by ~~lateral~~ tongue depressor
→ arch elevation.

[2] pharngeal reflex:-
gag reflex due to Contraction of The pharynx.

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التاريخ : الموضوع :

XII Hypoglossal

- type: pure motor. الوحيد
- function: motor supply of the tongue.

- Paralysis:-

A Unilateral tongue diviation to the opposite side of the lesion & disfigurment atrophy.

B Bilateral: - inability to protrude the tongue.
- swallowing proplems.
- loss of control over the tongue.
- misarticulation.

C Others:- - atrophy & weakness of the tongue muscles
- wrinkling of the mucosa of the upper area of paralyzid site of the tongue.

الموضوع : التاريخ :

Tongue Innervation:-

[1] Sensory: ~~by tr~~

[A] trigeminal, general sensations

[B] facial n: tast sensations of anterior 2/3

[C] glossopharyngeal n: general and tast sensations of posterior 1/3

[2] Motor: by hypoglossal nerve.

(+)

diagnosis:-

(1) ~~Throu~~ Thourough medical history should be taken

(2) [muscle [illegible]]

Physical examination + lesions [illegible]

~~facial [illegible]~~

(3) lab - investigations (4) lab

- audiogram
- electroneuronography
- CT
- MRI